

FIG.1

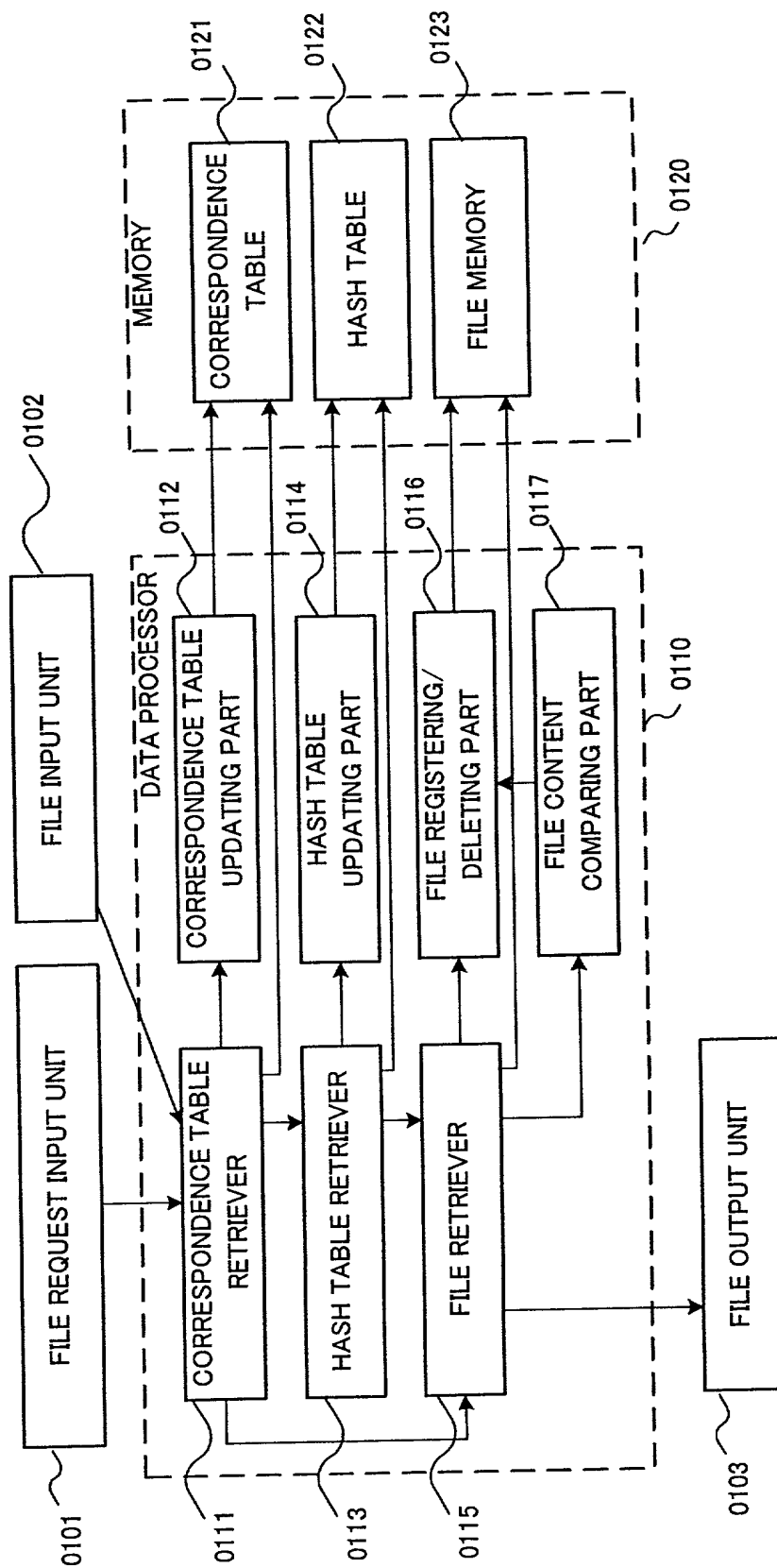


FIG.2

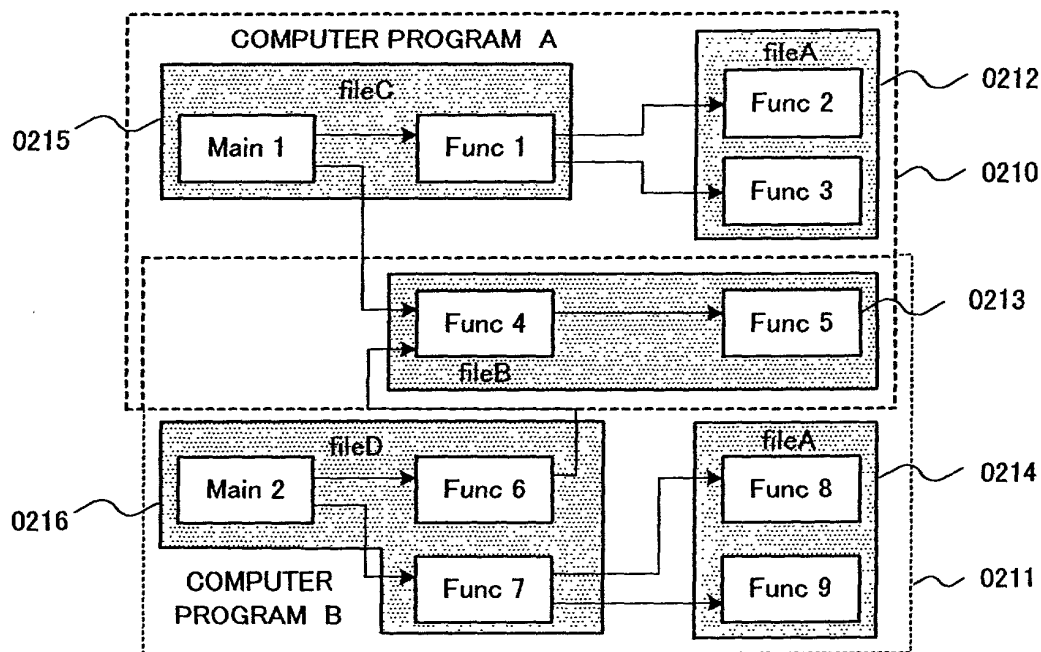


FIG.3

FILE NAME	FILE ID	MANAGING ID
file A	usr 001. prog 01	A-1
	usr 001. prog 02	A-2
	usr 002. prog 01	A-1
file B	usr 002. prog 01	B-1
	usr 003. prog 01	B-2
⋮	⋮	⋮

FIG.4

FILE NAME	FILE	MANAGING ID
file A	FuncA () ~ 0401	A-1
	FuncB () ~ 0402	A-2
	FuncC () ~ 0403	A-3

(a)

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE 0401(=aaaa)	A-1
HASH TABLE FOR FILE 0402(=bbbb)	A-2
HASH TABLE FOR FILE 0403(=bbbb)	A-3

(b)

FIG.8

MANAGING ID	FILE
A-1	FuncA () ~ 0401
A-2	FuncB () ~ 0402
A-3	FuncC () ~ 0403

FIG.5

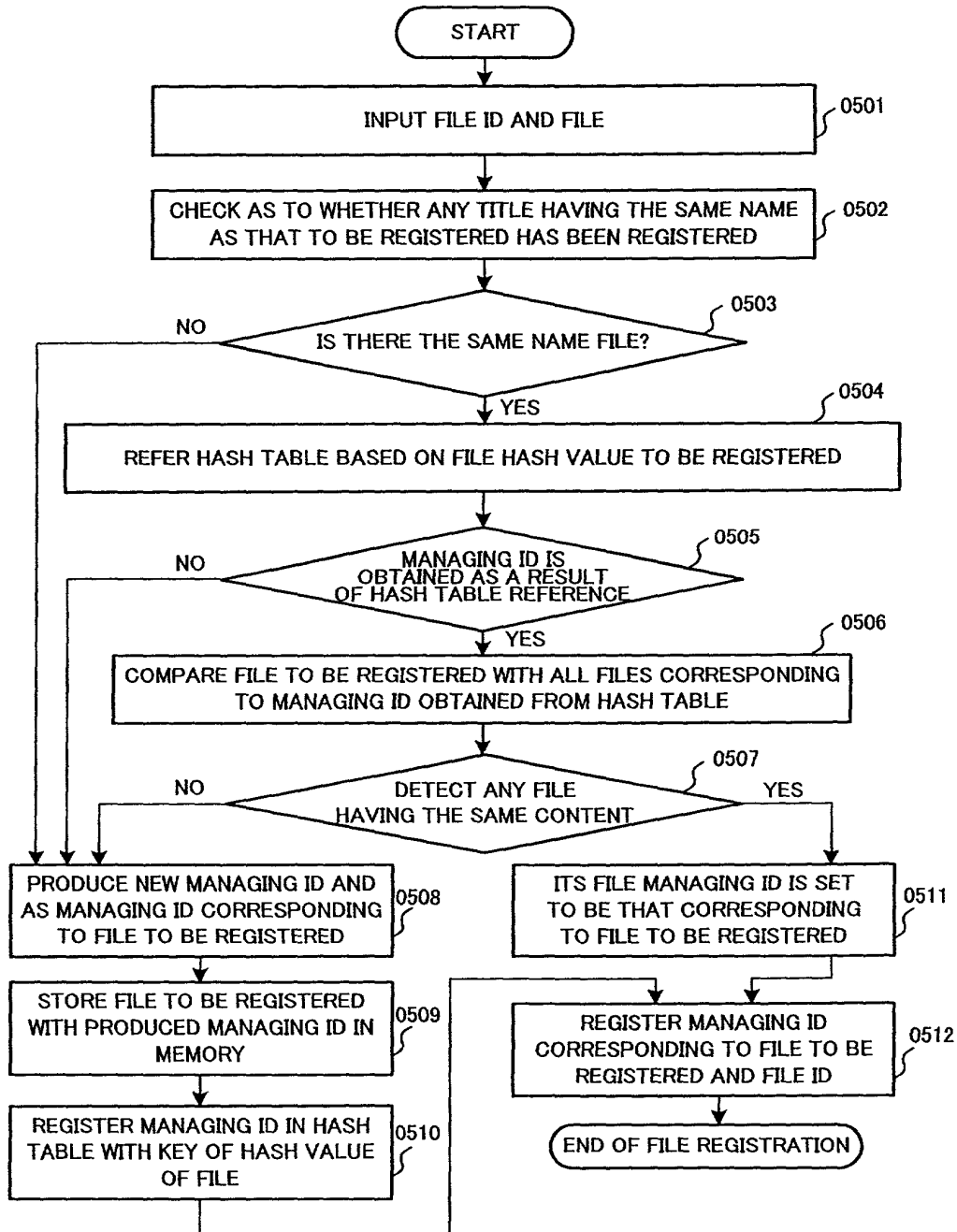


FIG.6

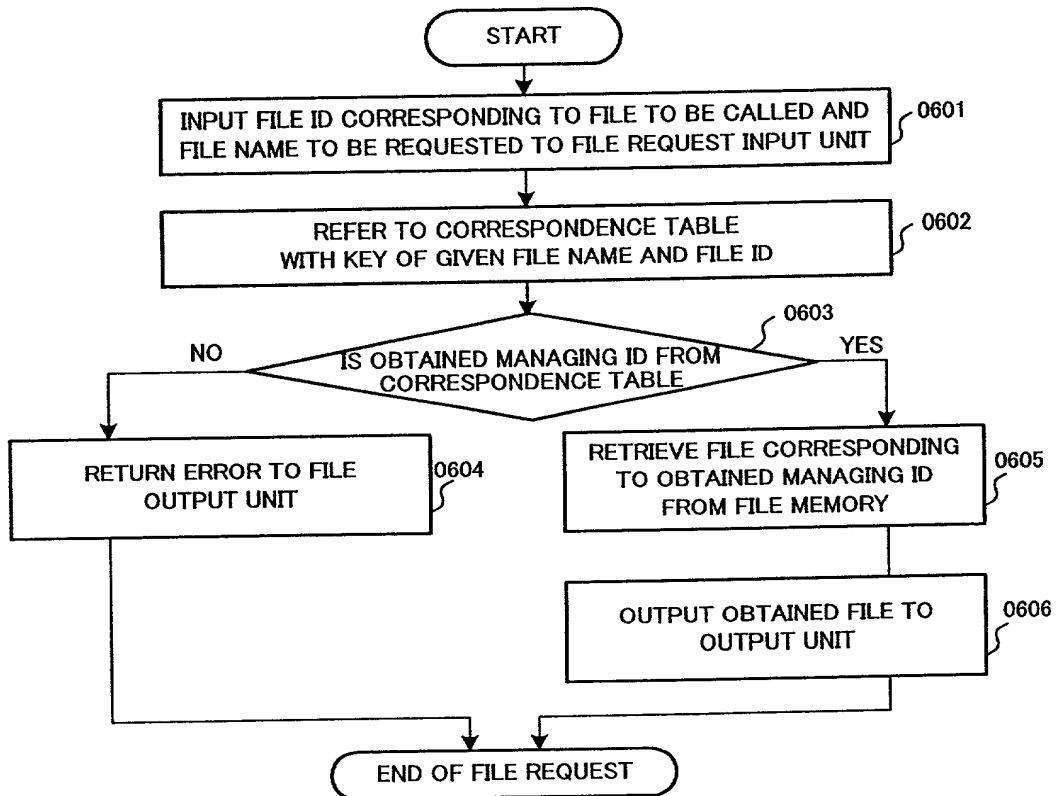


FIG. 7

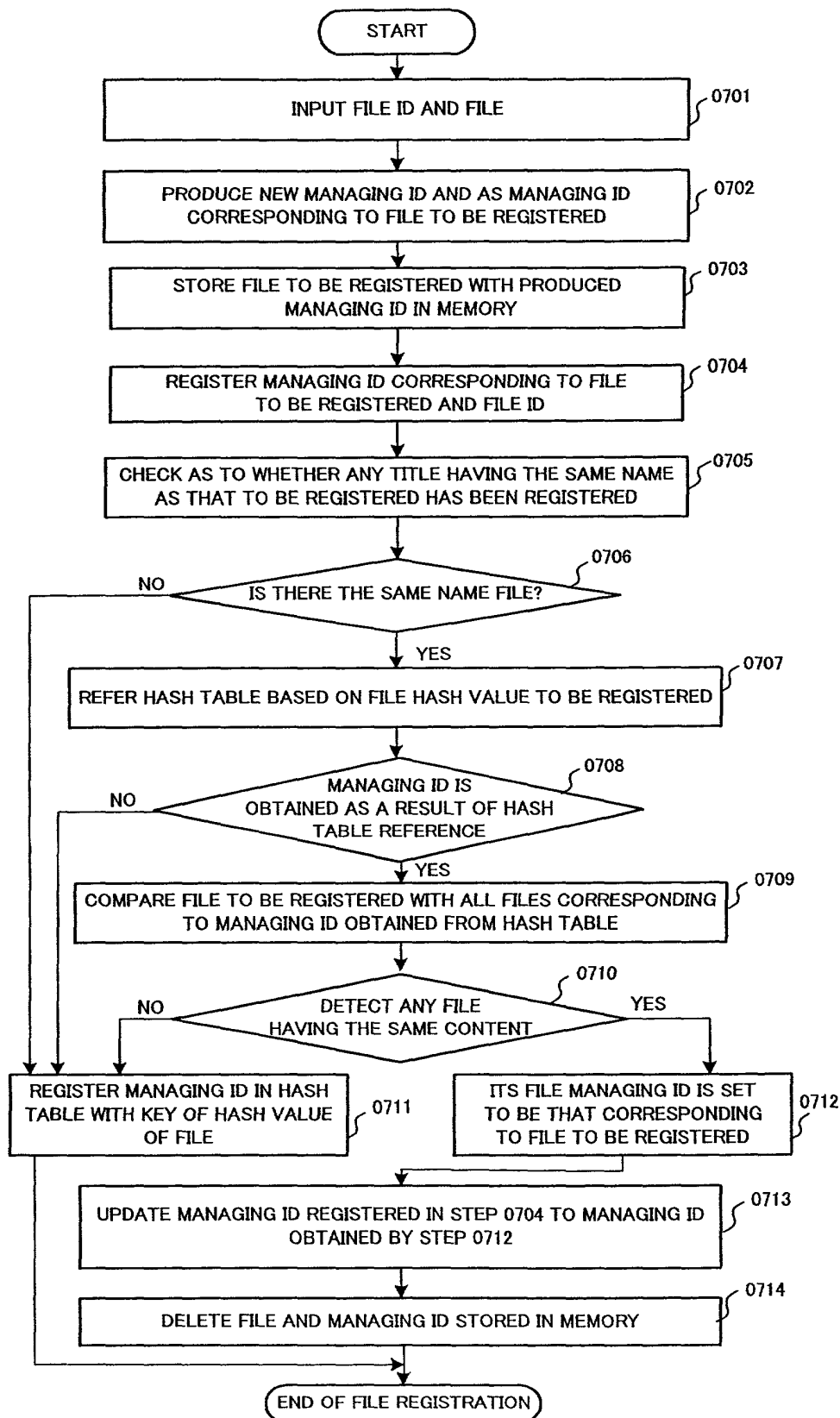


FIG.9

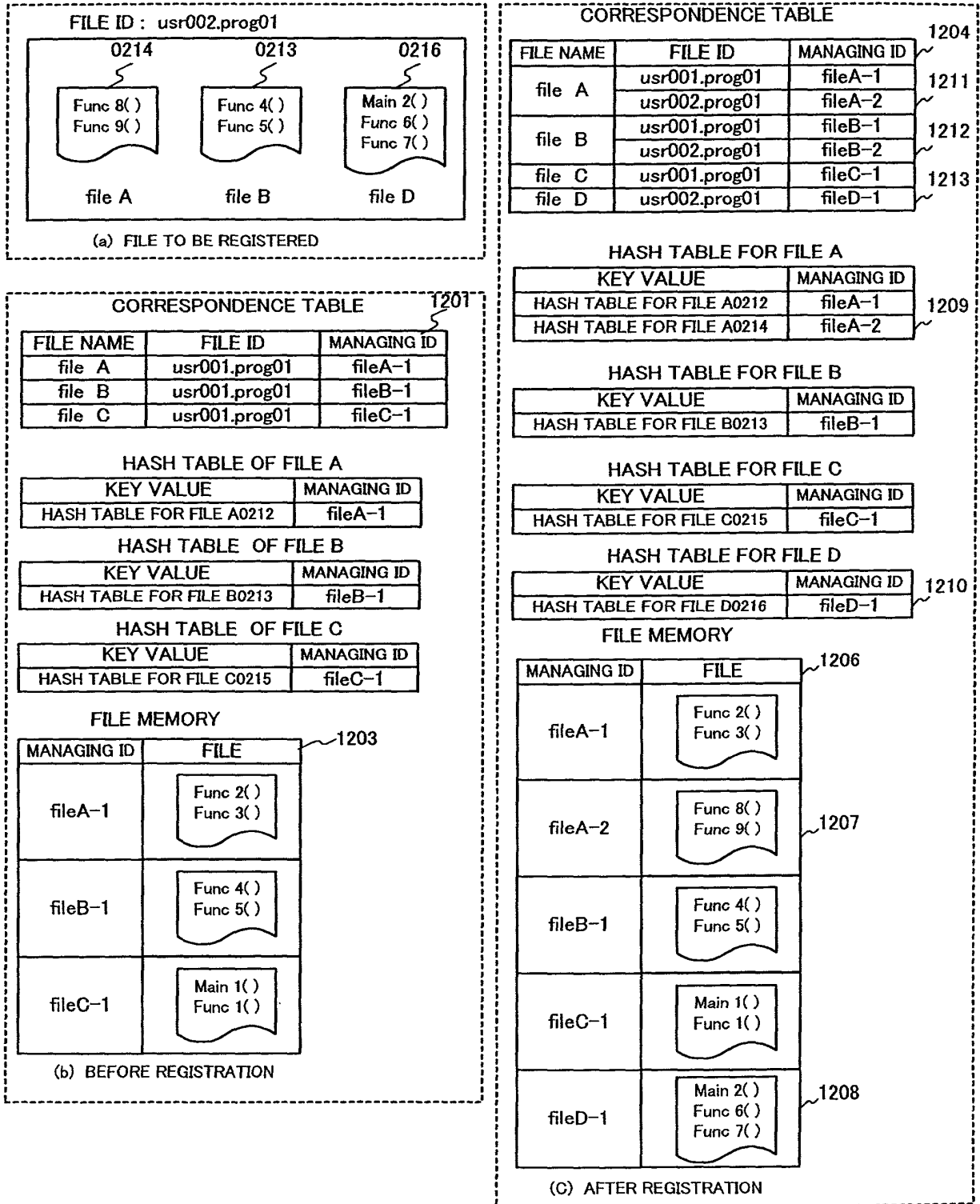


FIG.10

CORRESPONDENCE TABLE

FILE NAME	FILE ID	MANAGING ID
file A	usr001.prog01	fileA-1
	usr002.prog01	fileA-2
file B	usr001.prog01	fileB-1
	usr002.prog01	fileB-2
file C	usr001.prog01	fileC-1
file D	usr002.prog01	fileD-1

(a)

HASH TABLE OF FILE A

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE A0212	fileA-1
HASH TABLE FOR FILE A0214	fileA-2

HASH TABLE OF FILE B

KEY VALUE	MANAGING ID
HASH TABLE FOR FILEB0213	fileB-1

HASH TABLE OF FILE C

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE C0215	fileC-1

HASH TABLE OF FILE D

KEY VALUE	MANAGING ID
HASH TABLE FOR FILE D0216	fileD-1

(b)

FILE MEMORY

MANAGING ID	FILE
fileA-1	Func 2() Func 3()
fileA-2	Func 8() Func 9()
fileB-1	Func 4() Func 5()
fileB-2	Func 4() Func 5()
fileC-1	Main 1() Func 1()
fileD-1	Main 2() Func 6() Func 7()

(c)

FIG.11

File	ID	
HASH TABLE FOR FILE 0401	A-1	← FOR FILE NAME "file A"
HASH TABLE FOR FILE 0402	A-2	← FOR FILE NAME "file A"
HASH TABLE FOR FILE 0403	A-3	← FOR FILE NAME "file A"
HASH TABLE FOR FILE 0404	B-1	← FOR FILE NAME "file B"
HASH TABLE FOR FILE 0405	B-2	← FOR FILE NAME "file B"
⋮	⋮	

FIG.12

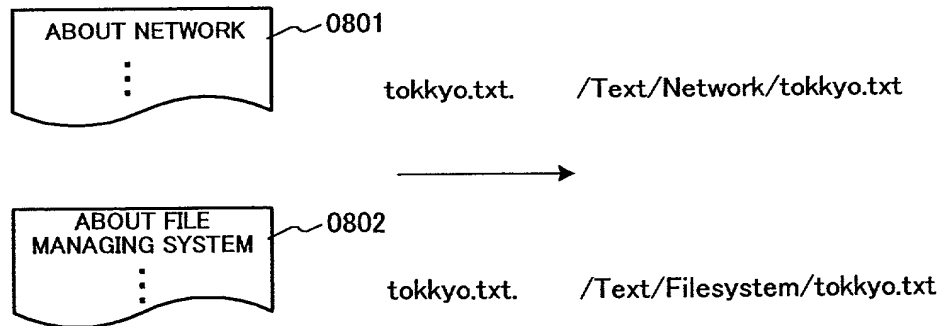


FIG.13

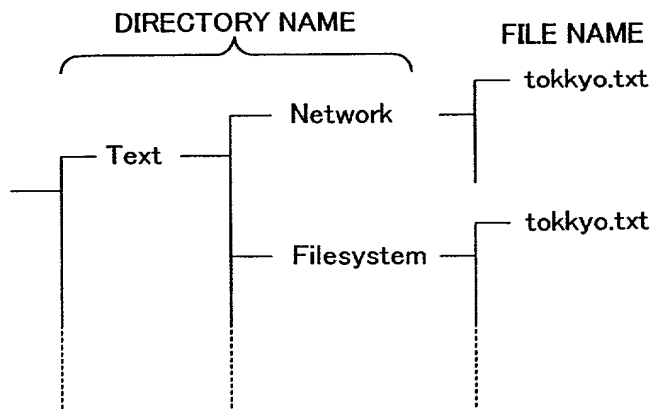


FIG.14

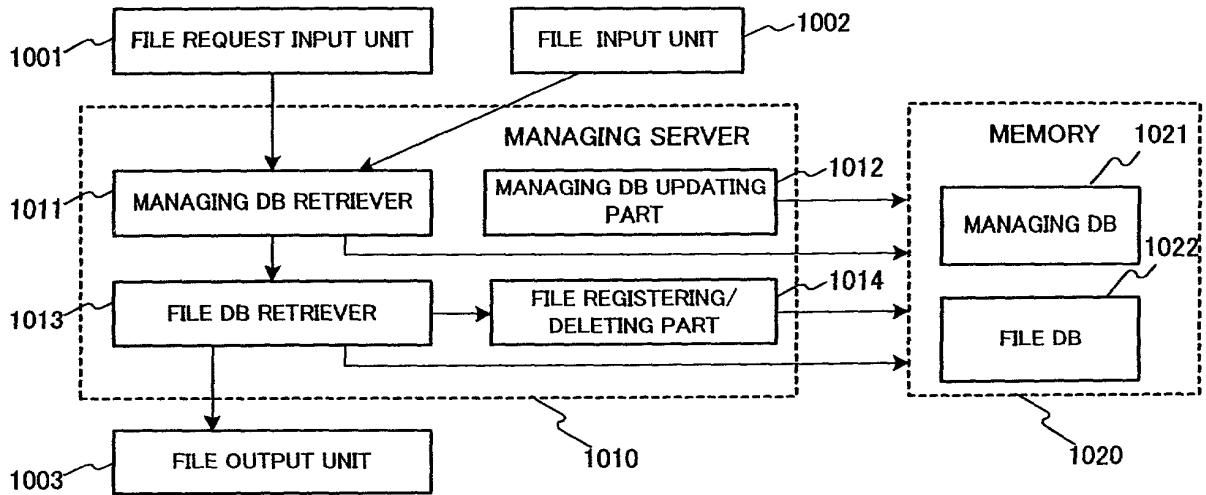


FIG.15

TYPE	FILE NAME	VERSION	MANAGING ID
1	A	1.0	001
2	A	1.0	002
1	A	2.0	003
1	B	1.0	004
⋮			